

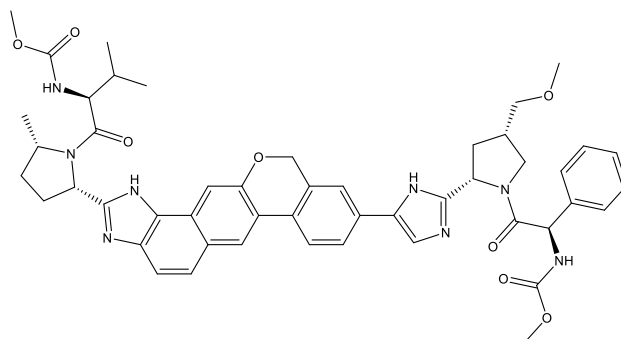
Catalog # 10-4931

Velpatasvir

CAS# 1377049-84-7

Methyl [(2S)-1-[(2S,5S)-2-[9-[2-[(2S,4S)-1-[(2R)-2-[(methoxycarbonyl)amino]-2-phenylacetyl]-4-(methoxymethyl)pyrrolidin-2-yl]-1H-imidazol-5-yl]-1,11-dihydroisochromeno[4',3':6,7]naphtho[1,2-d]imidazol-2-yl]-5-methylpyrrolidin-1-yl]-3-methyl-1-oxobutan-2-yl]carbamate; GS-5816

Lot # FBS2114



Velpatasvir (1377049-84-7) is an extremely potent pan-genotypic hepatitis C virus (HCV) NS5A inhibitor.¹ It is a component of Epclusa® and Vosevi®, two clinically useful medications with 98% and 97%, respectively, cure rates for HCV. It displayed EC₅₀'s for GTs 1-4, 6a ranging from 6-16 pM, GT5a at 75 pM, and GT6e at 130 pM. Velpatasvir also displayed an excellent barrier to viral resistance. It has been shown in silico, that velpatasvir binds to the SARS-CoV-2 spike protein and may be a potential therapeutic.²

- 1) Link et al. (2019), *Discovery of velpatasvir (GS-5816): A potent pan-genotypic HCV NS5A inhibitor in the single-tablet regimens Vosevi® and Epclusa®*; Bioorg. Med. Chem. Lett., **29** 2415
- 2) Kadioglu et al. (2020), *Identification of novel compounds against three targets of SARS CoV-2 coronavirus by combined virtual screening and supervised machine learning*; Comput. Biol. Med. **133** 104359

PHYSICAL DATA

Molecular Weight:	883.02
Molecular Formula:	C ₄₉ H ₅₄ N ₈ O ₈
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/mL)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase.
	Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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